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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/616,499	07/09/2003	Fred A. Brown	917/A01	1760	
2101 75	590 04/24/2006		EXAMINER		
BROMBERG & SUNSTEIN LLP			DWIVEDI, VIKANSHA S		
125 SUMMER STREET BOSTON, MA 02110-1618			ART UNIT	PAPER NUMBER	
			3746		
			DATE MAILED: 04/24/2006	DATE MAILED: 04/24/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/616,499	BROWN, FRED A.				
Office Action Summary	Examiner	Art Unit				
	Vikansha S. Dwivedi	3746				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	l. the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 16 O	<u>ctober 2003</u> .					
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closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>3/8/04 and 7/9/03</u>. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

Information Disclosure Statement

Applicant Information Disclosure Statement submitted on 3/8/2004 and 7/9/2003 are acknowledged. Since the submission complies with 37CFR 1.97 and 1.98 the references listed therein have been considered. An initialed and dated copy of Applicant's IDS forms is attached to the instant Office action.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirao et al. (U.S. Patent number 6,709,111) in view of Flory IV (U.S. Patent number 6,388,392) and further in view of Hardy (U.S. Patent number 4,618,803)

Hirao et. al. teaches a fan controller for controlling the rotation of a rotor having a fan blade (5), rotation of the rotor being controlled by rotor circuitry (Shown in Figure 1), the fan controller comprising: an input for receiving an input voltage, the rotor circuitry being energizable by the input voltage; Hirao does not disclose capacitive storage in electrical communication with both the rotor circuitry and the input, the capacitive

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of charging by receiving current from the input; and a current limiting element coupled between the input and the capacitive storage, the current limiting element at least in part controlling current flow from the input to the capacitive storage. Flory IV discloses an energy storage apparatus to ensure continued power supply during operation without interruptions. Flory IV discloses a capacitive storage (48) capable of charging by receiving current from the input (18) and a current limiting element (62) coupled between the input and the capacitive storage (As shown in Figure 7 and 8), the current limiting element at least in part controlling current flow from the input to the capacitive storage; wherein the current limiting element is configured to control current flow from the input to the capacitive storage at least in part as a function of the amount of current required to be drawn by the circuitry; wherein the capacitive storage includes a plurality of series capacitors (Comprises of several capacitors 54a, 54b, 54c and 54d connected in a series circuit 56 as shown in Figure 4); wherein the current limiting element is configured to ensure that the circuitry has sufficient current to operate when the storage element is storing power; wherein the current limiting element is configured to ensure that the operation begins substantially immediately after start-up. Flory IV discloses continued operation that indicated that the operation begins within one second after start-up. According to Flory, the current limiting element is not coupled between the input and the control circuitry (Figure 2); wherein the current limiting element isolates the control circuitry from the storage element. Hardy discloses a current limited charge circuit wherein the current limiting element is a PTC.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the cooling fan controller disclosed by Hirao in view of Flory IV and Hardy for the purpose of providing a continuous energy storage without interrupting the power supply to the motor and to provide a simple and economical way to control current flow of a charging circuit to avoid high current drains in energy storage by using PTC.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vikansha S. Dwivedi whose telephone number is 571-272-7834. The examiner can normally be reached on M-F, 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy S. Thorpe can be reached on 571-272-4444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VSD

TAE JUN KIM PRIMARY EXAMINER